YICHU FANG

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EDUCATION

Computer Science, The University of Nottingham Ningbo China (UNNC) · September 2019-July 2023

GPA: 85/100 (expected first degree)

Core courses: Algorithms Correctness and Efficiency, Artificial Intelligence Methods, Human Computer Interaction

Honors: 19-20 Provost's Scholarship (Award for the top 5% students)

PROJECT EXPERIENCE

RGB and INF Image Fusion with GAN (Graduation Project) · June 2022–Present

- Improved pipeline method based on the baseline
- The current pipeline achieved an average SSIM value of 0.23 and an average standard value of 26.79 higher than the formal method

Query Spatial Information from Knowledge Graphs · March–June 2022

- Queried the geographical information on YAGO2geo and local turtle files using SPARQL grammar and Java & Jena
- Transferred data structures with 27 data points to the centroids of each bounded polygon
- Repeatedly verified the data consistency between YAGO4 and YAGO2geo on three randomly selected data items within the error range of 0.001

Job Scheduling Software System · September 2021–April 2022

- Developed 4 job shop scheduling algorithms that helped arrange complicated workloads
- Conducted background research on potential end users to determine their usage scenarios, and designed front-end website UI using React tallied with users' requirements
- Wrote script language using SpringBoot and Magic-API for immediate scheduling queries from users
- As the project manager, fully handled the whole process from project initiation, progress management, to project delivery

Financial Fraud Detection for Chinese Listed Corporations using Machine Learning · June 2021–January 2022

- Collected textual and numeric financial data as core input from two original datasets, each of which has 15,000+ data items and 13 attributes
- Trained support vector machine (SVM) classification models with prediction accuracy of 0.872 and specificity of 0.943
- Conducted part of feature extraction and concluded that *Financial Leverage* affects the model most under the consideration of 6 evaluation metrics

INTERNSHIP EXPERIENCE

Back-end Intern **Zhejiang Public Information Industry Co., Ltd., Ningbo Branch** · August–September 2021

- Optimized the digital framework of the Ningbo Government by iterating the back-end system of its online Q&A System
- Synchronized the Q&A data using Kettle to streamline the data transfer procedure
- Wrote about 30 back-end APIs individually with SpringBoot and Shiro
- Processed and integrated data using MySQL and connected back-end to database using MyBatis-Plus

Front-end Intern **Ningbo AllLink Information Technology Co., Ltd** · March–October 2021

- Developed the released version of a front-end User Administration platform with 5 main pages and 20 subpages using Vue.js
- Collaborated extensively with the product design department to facilitate the content release process of a WeChat mini program by writing the posting and profile setting functions

SKILLS

Languages: English: IELTS 8.0 (R: 9.0; L 8.5; S:7.0; W: 7,0); Chinese: Native

Mastery of Programming Languages:

- C, C++
- Python (PyTorch, TensorFlow, Flask, etc.)
- Java (SpringBoot, MyBatis-Plus, Shiro, etc.)
- MySQL, SQLite
- HTML, CSS, JavaScript (Vue.js, React)
- Haskell